



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200  
Fax 613 632-5246

U/R

D169-841-013  
Job Sheet 191982



*& this Needs a Concession from QC*  
POSITIVE RECALL

Part No: D169-841-013

Job Qty: 3 pcs

Part Name: AW169 Upper Cutter Deflector



*4x 1/2"*

EFFECTIVE 19/01/14 AUTH STD  
RELEASED 1/18 DATE 25 JUL 2019

DAS  
55  
9-89

Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 3/14/19

Job Tracking No:

Due Date: 5/1/19

Created By: Marie Lajeunesse

Type: SOLD

Description:

Note: DWG REV D IPP REV:A NEW ISSUE 13-07-17 JLM VERIFIED BY:DD IPP REV:B 13.10.18 IIN REV:B DD  
VERF:JLM IPP REV:C 15.07.03 AS PER CHG002 ech15-595 DD VERF:JLM

Ship Via:

Bill of Materials

Job Routing

| Op No | Operation              | Qty   | Start Date | Due Date | Standard  |         | Workcenter/Supplier   |           | Sign-off |
|-------|------------------------|-------|------------|----------|-----------|---------|-----------------------|-----------|----------|
|       |                        |       |            |          | Setup Hrs | Run Hrs | Workcenter / Supplier | Lead Time |          |
| 110   | Packaging 1 - Pick Kit | 3 pcs |            | 5/1/19   | 0.00      | 0.00    | Packaging 1 - 1       |           |          |
|       |                        |       |            |          |           |         | Packaging 1 - 2       |           |          |
|       |                        |       |            |          |           |         | Packaging 1 - 3       |           |          |
|       |                        |       |            |          |           |         | Packaging 1 - 4       |           |          |
|       |                        |       |            |          |           |         | Packaging 1 - 5       |           |          |
|       |                        |       |            |          |           |         | Packaging 1 - 6       |           |          |
|       |                        |       |            |          |           |         | Packaging 1 - 7       |           |          |
|       |                        |       |            |          |           |         | Packaging 1 - 8       |           |          |
|       |                        |       |            |          |           |         | Packaging 1 - 9       |           |          |
|       |                        |       |            |          |           |         | Packaging 1 - 10      |           |          |
|       |                        |       |            |          |           |         | Packaging 1 - 11      |           |          |
|       |                        |       |            |          |           |         | Packaging 1 - 12      |           |          |
|       |                        |       |            |          |           |         | Packaging 1 - 13      |           |          |
|       |                        |       |            |          |           |         | Packaging 1 - 14      |           |          |
|       |                        |       |            |          |           |         | Packaging 1 - 15      |           |          |
|       |                        |       |            |          |           |         | Packaging 1 - 16      |           |          |
|       |                        |       |            |          |           |         | Packaging 1 - 17      |           |          |
|       |                        |       |            |          |           |         | Packaging 1 - 18      |           |          |
|       |                        |       |            |          |           |         | Packaging 1 - 19      |           |          |
|       |                        |       |            |          |           |         | Packaging 1 - 20      |           |          |
|       |                        |       |            |          |           |         | Packaging 1 - 21      |           |          |
|       |                        |       |            |          |           |         | Packaging 1 - 22      |           |          |
|       |                        |       |            |          |           |         | Packaging 1 - 23      |           |          |
|       |                        |       |            |          |           |         | Packaging 1 - 24      |           |          |
|       |                        |       |            |          |           |         | Packaging 1 - 25      |           |          |
|       |                        |       |            |          |           |         | Packaging 1 - 26      |           |          |
|       |                        |       |            |          |           |         | Packaging 1 - 27      |           |          |
|       |                        |       |            |          |           |         | Packaging 1 - 28      |           |          |
|       |                        |       |            |          |           |         | Packaging 1 - 29      |           |          |
|       |                        |       |            |          |           |         | Packaging 1 - 30      |           |          |



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Container No: S195768



Part: D169-841-013

Job No: 191982

Serial No/Batch: S195768

Revision:

Inspector:

Exp Date:

Instructions:

Date: 07/04/19

|                                 |       |        |           |                        |                |
|---------------------------------|-------|--------|-----------|------------------------|----------------|
| 120 QC 4                        | 3 pcs | 5/1/19 | 0.00 0.00 | Packaging 1 - 31       |                |
|                                 |       |        |           | Packaging 1 - 32       |                |
|                                 |       |        |           | Packaging 1 - 33       |                |
|                                 |       |        |           | Packaging 1 - 34       |                |
|                                 |       |        |           | Packaging 1 - 35       |                |
|                                 |       |        |           | Packaging 1 - 36       |                |
|                                 |       |        |           | QC 4 - 28              |                |
| 125 DC - 1 - B4B                | 3 pcs | 5/1/19 | 0.00 0.00 | QC 4 - 42              |                |
|                                 |       |        |           | QC 4 - 58              | Smis MB        |
|                                 |       |        |           | QC 4 - 69              |                |
|                                 |       |        |           | QC 4 - 9               |                |
|                                 |       |        |           | QC 4 - 46              |                |
|                                 |       |        |           | DC - 1 - B4B           | DAS            |
|                                 |       |        |           | DC - 2 - B4B           | 21 JUL 04 2019 |
| 130 Packaging 3-1 - Stock - B4B | 3 pcs | 5/1/19 | 0.00 0.00 | Packaging 3 - 1 - B4B  | 5-89           |
|                                 |       |        |           | Packaging 3 - 2 - B4B  |                |
|                                 |       |        |           | Packaging 3 - 3 - B4B  |                |
|                                 |       |        |           | Packaging 3 - 4 - B4B  |                |
|                                 |       |        |           | Packaging 3 - 5 - B4B  |                |
|                                 |       |        |           | Packaging 3 - 6 - B4B  |                |
|                                 |       |        |           | Packaging 3 - 7 - B4B  | Smis MB -      |
|                                 |       |        |           | Packaging 3 - 8 - B4B  |                |
|                                 |       |        |           | Packaging 3 - 9 - B4B  |                |
|                                 |       |        |           | Packaging 3 - 10 - B4B |                |
|                                 |       |        |           | Packaging 3 - 11 - B4B |                |
|                                 |       |        |           | Packaging 3 - 12 - B4B |                |
|                                 |       |        |           | Packaging 3 - 13 - B4B |                |
|                                 |       |        |           | Packaging 3 - 14 - B4B |                |
|                                 |       |        |           | Packaging 3 - 15 - B4B |                |
|                                 |       |        |           | Packaging 3 - 16 - B4B |                |
|                                 |       |        |           | Packaging 3 - 17 - B4B |                |
|                                 |       |        |           | Packaging 3 - 18 - B4B |                |
|                                 |       |        |           | Packaging 3 - 19 - B4B |                |
|                                 |       |        |           | Packaging 3 - 20 - B4B |                |
|                                 |       |        |           | Packaging 3 - 21 - B4B |                |
|                                 |       |        |           | Packaging 3 - 22 - B4B |                |
|                                 |       |        |           | Packaging 3 - 23 - B4B |                |
|                                 |       |        |           | Packaging 3 - 24 - B4B |                |
|                                 |       |        |           | Packaging 3 - 25 - B4B |                |
|                                 |       |        |           | Packaging 3 - 26 - B4B |                |
|                                 |       |        |           | Packaging 3 - 27 - B4B |                |
|                                 |       |        |           | Packaging 3 - 28 - B4B |                |
|                                 |       |        |           | Packaging 3 - 29 - B4B |                |
|                                 |       |        |           | Packaging 3 - 30 - B4B |                |
|                                 |       |        |           | Packaging 3 - 31 - B4B |                |
|                                 |       |        |           | Packaging 3 - 32 - B4B |                |
|                                 |       |        |           | Packaging 3 - 33 - B4B |                |
|                                 |       |        |           | Packaging 3 - 34 - B4B |                |
|                                 |       |        |           | Packaging 3 - 35 - B4B |                |
|                                 |       |        |           | Packaging 3 - 36 - B4B |                |
| 140 QC 21 - FG                  | 3 pcs | 5/1/19 | 0.00 0.00 | QC 21 - FG - 21        |                |
|                                 |       |        |           | QC 21 - FG - 70        | DAS            |
|                                 |       |        |           | QC 21 - SA - 53        | 21 9-89        |

POSITIVE  
RECALL  
To: R. Duval

Part Op 110 - (Pick Kit)  
Descriptions: 120 - (QC4- 100% Inspect kits for completeness)  
125 - (Document Control) "Photocopy bluefiles per D169-841 Cable Cutter System and create labels per 6F9540V00131 CHG002"  
130 - Identify and pack for shipping as per PPP D169-841-013  
140 - (QC21- Final Inspection - Work Order Release)

010690

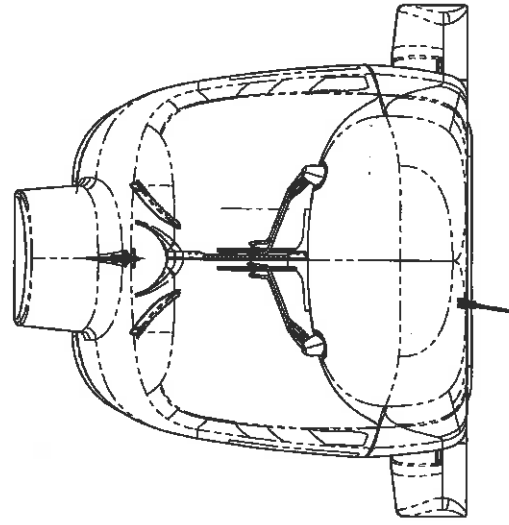
| Job BOM      |                          |              |                            |                               |
|--------------|--------------------------|--------------|----------------------------|-------------------------------|
| Part / Item  | Component Name           | Quantity     | Operation                  | Container                     |
| D4821-1      | Windshleld Deflector     | 3 Ea (1 ea)  | 110-Packaging 1 - Pick Kit | 51407711 1x5089376            |
| D4822-1      | Upper Deflector, LH      | 3 Ea (1 ea)  | 110-Packaging 1 - Pick Kit | 5133230 1x5089376             |
| D4822-2      | Upper Right Deflector    | 3 pcs (1 ea) | 110-Packaging 1 - Pick Kit | 5089530 X1 5173024 X3         |
| D4840-041    | Upper Cutter Assembly    | 3 pcs (1 ea) | 110-Packaging 1 - Pick Kit | 5169832 X3 5100003 X1         |
| D4857-041    | Wiper Deflector Assembly | 6 Ea (2 ea)  | 110-Packaging 1 - Pick Kit | 5195277 5193746 X6 5166236 X1 |
| MS27039-1-12 | Screw                    | 24 Ea (8 ea) | 110-Packaging 1 - Pick Kit | 5148666 X1                    |

| Job Allocations            |                |          |           |           |
|----------------------------|----------------|----------|-----------|-----------|
| Operation                  | Component Part | Required | Inventory | Allocated |
| 110-Packaging 1 - Pick Kit | D4821-1        | 3        | 7         | 0         |
|                            | D4822-1        | 3        | 10        | 0         |
|                            | D4822-2        | 3        | 2         | 0         |
|                            | D4840-041      | 3        | 0         | 0         |
|                            | D4857-041      | 6        | 1         | 0         |
|                            | MS27039-1-12   | 24       | 165       | 0         |

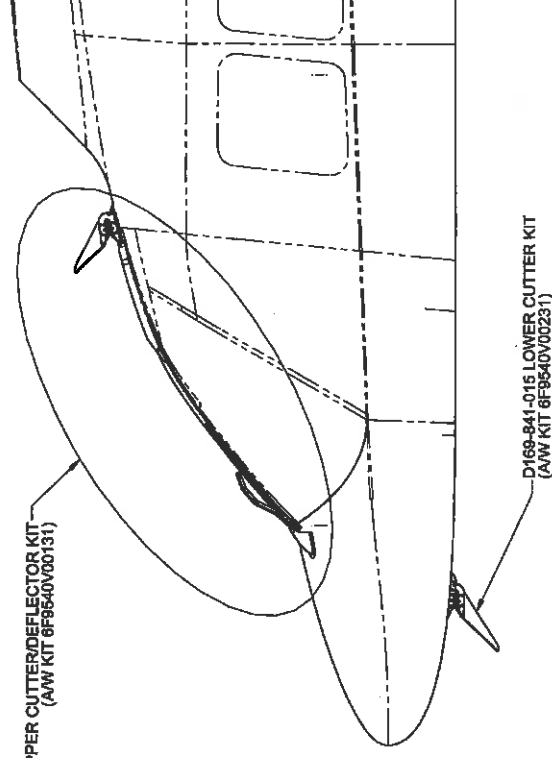
| Part Specifications                |  |  |  |  |
|------------------------------------|--|--|--|--|
| Specifications could not be found. |  |  |  |  |

Plex 3/14/19 9:13 AM Dart.lajeunesse.marie

|                                                                                                                                                                                                                                                                                                                                                                                                        |                   |                                                                                                         |  |                                                                                                                                                                                                                                                                                                                        |                                                                                                                |  |                                                                                                                                                                                                                                                                                                                              |                     |                                                                                                                                      |                                                                                                                                                                                                                                                                                                        |                                                                                                                                                     |  |                                                                                                                                                                                                                                                  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Job: _____                                                                                                                                                                                                                                                                                                                                                                                             |                   | DISPOSITION                                                                                             |  |                                                                                                                                                                                                                                                                                                                        | DEPARTMENT/PROCESS                                                                                             |  |                                                                                                                                                                                                                                                                                                                              |                     |                                                                                                                                      |                                                                                                                                                                                                                                                                                                        |                                                                                                                                                     |  |                                                                                                                                                                                                                                                  |  |  |
| Part No. _____                                                                                                                                                                                                                                                                                                                                                                                         |                   | Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/> |  |                                                                                                                                                                                                                                                                                                                        | Skid-tube <input type="checkbox"/><br>Machining <input type="checkbox"/><br>Large Fab <input type="checkbox"/> |  | Cross tube <input type="checkbox"/><br>Small Fab <input type="checkbox"/><br>Finishing <input type="checkbox"/>                                                                                                                                                                                                              |                     | Eng. (Non-AW) <input type="checkbox"/><br>Prod. Eng. Coord. <input type="checkbox"/><br>Rec/Store/Packaging <input type="checkbox"/> |                                                                                                                                                                                                                                                                                                        | Engineering <input type="checkbox"/><br>Water Jet <input type="checkbox"/><br>Supplier <input type="checkbox"/><br>Quality <input type="checkbox"/> |  |                                                                                                                                                                                                                                                  |  |  |
| Date : _____                                                                                                                                                                                                                                                                                                                                                                                           | Sequence #: _____ | QTY Affected : _____                                                                                    |  | MRB (QS1042)                                                                                                                                                                                                                                                                                                           |                                                                                                                |  |                                                                                                                                                                                                                                                                                                                              |                     |                                                                                                                                      |                                                                                                                                                                                                                                                                                                        |                                                                                                                                                     |  |                                                                                                                                                                                                                                                  |  |  |
| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                                                                       |                   |                                                                                                         |  | Disposition                                                                                                                                                                                                                                                                                                            |                                                                                                                |  |                                                                                                                                                                                                                                                                                                                              |                     |                                                                                                                                      |                                                                                                                                                                                                                                                                                                        |                                                                                                                                                     |  |                                                                                                                                                                                                                                                  |  |  |
| <div>Root Cause</div> <div>Operator <input type="checkbox"/><br/>Manufacturing Process <input type="checkbox"/><br/>Equip/Tooling <input type="checkbox"/><br/>Handling/Preservation <input type="checkbox"/><br/>Material <input type="checkbox"/><br/>Product Improvement <input type="checkbox"/><br/>Process Improvement <input type="checkbox"/><br/>Human Factors <input type="checkbox"/></div> |                   |                                                                                                         |  | FAULT CATEGORY                                                                                                                                                                                                                                                                                                         |                                                                                                                |  |                                                                                                                                                                                                                                                                                                                              |                     |                                                                                                                                      |                                                                                                                                                                                                                                                                                                        |                                                                                                                                                     |  |                                                                                                                                                                                                                                                  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                        |                   |                                                                                                         |  | Pressure/Forced <input type="checkbox"/><br>Bending <input type="checkbox"/><br>Crushing <input type="checkbox"/><br>Cracks <input type="checkbox"/><br>Crimp/Kink/Ripple/Wave/Twist <input type="checkbox"/><br>Marks/Chatter <input type="checkbox"/><br>Mislabeled <input type="checkbox"/><br>Other/Details: _____ |                                                                                                                |  | Contamination <input type="checkbox"/><br>Misaligned/off center <input type="checkbox"/><br>BOM/Route <input type="checkbox"/><br>Broken/Damage/Defect <input type="checkbox"/><br>Incomplete/Unclear Instructions <input type="checkbox"/><br>Drill Holes <input type="checkbox"/><br>Fit/Function <input type="checkbox"/> |                     |                                                                                                                                      | Power Loss/Surge <input type="checkbox"/><br>Folio/Program <input type="checkbox"/><br>Grain Direction <input type="checkbox"/><br>Weld <input type="checkbox"/><br>Wrong Stock Pulled <input type="checkbox"/><br>Out of Sequence <input type="checkbox"/><br>Off-set/Set-up <input type="checkbox"/> |                                                                                                                                                     |  | Positioned Wrong <input type="checkbox"/><br>Outside Tolerance <input type="checkbox"/><br>Drawing <input type="checkbox"/><br>Finish <input type="checkbox"/><br>Part Lost/Missing <input type="checkbox"/><br>Misread <input type="checkbox"/> |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                        |                   |                                                                                                         |  |                                                                                                                                                                                                                                                                                                                        |                                                                                                                |  |                                                                                                                                                                                                                                                                                                                              |                     |                                                                                                                                      |                                                                                                                                                                                                                                                                                                        |                                                                                                                                                     |  |                                                                                                                                                                                                                                                  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                        |                   |                                                                                                         |  |                                                                                                                                                                                                                                                                                                                        |                                                                                                                |  |                                                                                                                                                                                                                                                                                                                              |                     |                                                                                                                                      |                                                                                                                                                                                                                                                                                                        |                                                                                                                                                     |  |                                                                                                                                                                                                                                                  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                        |                   |                                                                                                         |  |                                                                                                                                                                                                                                                                                                                        |                                                                                                                |  |                                                                                                                                                                                                                                                                                                                              |                     |                                                                                                                                      |                                                                                                                                                                                                                                                                                                        |                                                                                                                                                     |  |                                                                                                                                                                                                                                                  |  |  |
| Completed By                                                                                                                                                                                                                                                                                                                                                                                           |                   |                                                                                                         |  | Lead hand / Supervisor                                                                                                                                                                                                                                                                                                 |                                                                                                                |  |                                                                                                                                                                                                                                                                                                                              | QC / QA Coordinator |                                                                                                                                      |                                                                                                                                                                                                                                                                                                        |                                                                                                                                                     |  |                                                                                                                                                                                                                                                  |  |  |



D169-841-013 UPPER CUTTER/DEFLECTOR KIT  
(AW KIT 8F9540V00131)



D169-841-011 AW169 CABLE CUTTER SYSTEM

| QTY -011 | QTY -013 | QTY -015 | DART PIN      | DESCRIPTION                | AGUSTA WESTLAND PIN |
|----------|----------|----------|---------------|----------------------------|---------------------|
| X        |          |          | D169-841-011  | CABLE CUTTER SYSTEM        | TBD                 |
| 1        | X        |          | D169-841-013  | UPPER CUTTER/DEFLECTOR KIT | 8F9540V00131        |
| 1        |          | X        | D169-841-015  | LOWER CUTTER KIT           | 8F9540V00231        |
|          |          |          | D4821-1       | WINDSHIELD DEFLECTOR       | TBD                 |
|          |          |          | D4822-1       | UPPER DEFLECTOR LH         | TBD                 |
|          |          |          | D4822-2       | UPPER DEFLECTOR RH         | TBD                 |
|          |          |          | D4840-041     | UPPER CUTTER ASSY          | TBD                 |
|          |          |          | D4857-041     | WIPER DEFLECTOR ASSY       | TBD                 |
|          |          |          | MS27039-1-12  | SCREW                      | N/A                 |
|          |          |          | TBD           | FASTENERS                  | N/A                 |
|          |          | 1        | D4842-041     | LOWER CUTTER ASSY          | TBD                 |
|          |          | 5        | MS21042L08    | LOCKNUT                    | N/A                 |
|          |          | 5        | MS27039-0824  | SCREW                      | N/A                 |
|          |          | 10       | NAST140FN632P | WASHER                     | N/A                 |

| REV.                         | DESCRIPTION                                                                                       | BY  | DATE     |
|------------------------------|---------------------------------------------------------------------------------------------------|-----|----------|
| D                            | MS27039-0824 WAS MS27039-0819, REFORMAT PARTS LIST                                                | AJS | 15.06.12 |
| C                            | D4857-041 WAS D4857-1 D4844-1 GASKET IS NOW IN D4857 DRAWING. PARTS LIST: MS27039-1-12 QTY WAS 10 | AJS | 15.06.20 |
| B                            | ADD D4844-1 GASKET (2N MS-1) (2N MS-2 BS-2) ADD MS27039-1-12 SCREW. D4857-1 WAS D4857-041/042     | DW  | 13.09.23 |
| A                            | NEW RELEASE                                                                                       | DB  | 13.07.08 |
| DESIGN                       | DB                                                                                                | AJS |          |
| DRAWN                        |                                                                                                   |     |          |
| CHECKED                      | CP                                                                                                |     |          |
| MFG. APPR.                   | JLM                                                                                               |     |          |
| APPROVED                     | WM                                                                                                |     |          |
| DE APPR.                     | DS                                                                                                |     |          |
| DATE                         | 15.06.12                                                                                          |     |          |
| AW169 CABLE CUTTER SYSTEM    |                                                                                                   |     |          |
| DATE 15.06.12                |                                                                                                   |     |          |
| SCALE                        |                                                                                                   |     |          |
| SHEET 1 OF 2                 |                                                                                                   |     |          |
| REV. D                       |                                                                                                   |     |          |
| DRAWING NO. IIN-D169-041     |                                                                                                   |     |          |
| HAWKESSBURY, ONTARIO, CANADA |                                                                                                   |     |          |
| DART AEROSPACE LTD           |                                                                                                   |     |          |

APPROVED



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MS27039-0824 WAS MS27039-0819, REFORMAT PARTS LIST